

#### TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

MATREX Simulation Initialization
DoD M&S Conference

10 March 2008

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## **Problem Space Overview**

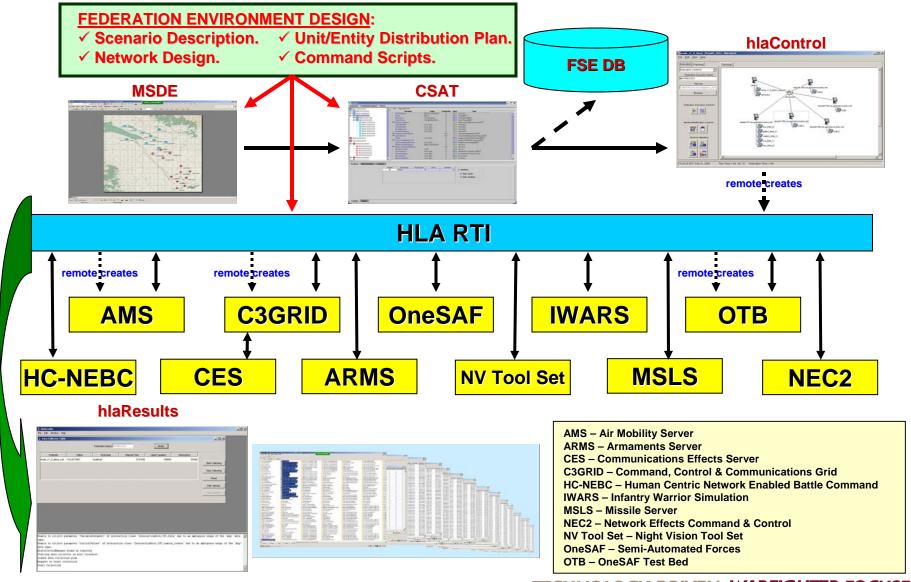


- In the past, most organizations supported dedicated simulation programs.
- Considerable pre-exercise effort was required to enable the collaboration of multiple simulations.
- 12-18 months of pre-exercise effort was not uncommon for some DoD Joint training events involving multiple, dissimilar simulations.
- Accordingly, DoD has identified "rapid scenario generation" as a top M&S priority.



## Overview Example







### **Benefits Overview**



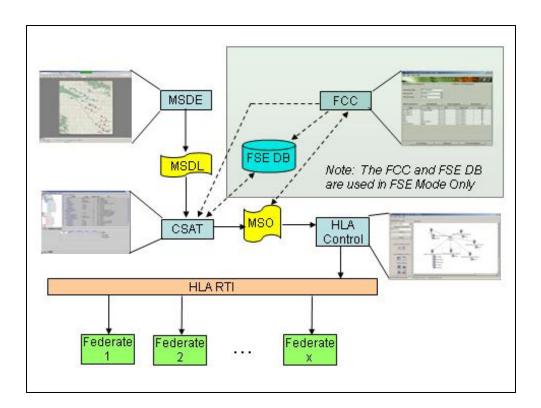
- Quickly and efficiently generates both tactical scenario and HLA Federation instantiation reader files in standardized formats
- Initializes HLA Federations from a common point
- Minimizes both manual input and configuration conflict errors
- Simplifies configuration management and increases data consistency
- All simulation environments that employ the MATREX standard for scenario and federation reader files have access to all other MATREX initialization compliant scenarios



# Features and Capabilities



- Reduces time and resources required to initialize a distributed simulation.
- Promotes the reuse of standardized scenario data formats.
- Improves configuration management via an easily manageable number of data sets.
- Allows incorporation of additional components and scenarios that are compliant with the MSDL format.





#### **Future Work**



- Align the MATREX Simulation Initialization process with the following external activities as required:
  - OneSAF Initialization Process
  - LSI FSE Initialization Process
  - 3CE LVC SimInit TFA IPT Process
  - Army Initialization IPT Process
  - JFCOM Joint Rapid Scenario Generation (JRSG) IPT
  - DoD M&S Steering Committee Directed Joint Data Alternatives (JDA) Study



#### Customers



- RDECOM:
  - CERDEC C4ISR OTM Federation
  - AMRDEC JAMUS Federation
- TRADOC:
  - Multiple BLCSE Federations
- FCS Program:
  - FSE Federation



### Points of Contact



Name	Title	Phone	Email
Government:			
Tom Hurt	MATREX PM	(703) 806-0995	tom.hurt@us.army.mil
Chris Metevier	MATREX Deputy PM	(407) 384-3865	chris.metevier@us.army.mil
Contractors:			
Charley Budde	MATREX SimInt Lead	(703) 428-6101	cbudde@mitre.org
Gary Smith	Design & Dev Lead	(703) 425-2205 ext. 224	gsmith@d-a-s.com
Chris Parker	Sr. SW Engineer	(703) 425-2205 ext. 226	cparker@raytheonvtc.com
Howard Borum	Sr. Test Engineer	(703) 428-6107	hborum@raytheonvtc.com

MATREX IDE Website: https://www.matrex.rdecom.army.mil